

Colorado Department of Transportation
Structure Inspection and Inventory Report (English Units)

Highway Number (ON) 5D: 025A 1

Mile Post (ON)11: 153.914 mi

Bridge Key: H-17-J Inspection Date: 12/15/2010 Sufficiency Rating: 66.6 Not Eligible

Rgn/Sectn 2E/2M:	24	Hist Signif 37:	5	UW Inspection Date 93B:	
Trans Region 2T:	01	Posting status 41:	A	SI Date 93C:	
County Code 3:	041	Service on/un 42A/B:	1 5	Bridge Cost 94:	\$ 0
EL PASO		Main Mat/Desgn 43A/B:	4 2	Roadway Cost 95:	\$ 0
Place Code 4:	00000	Appr Mat/Desgn 44A/B:	0 0	Total Cost 96:	\$ 0
non-city		Main Spans Unit 45:	3	Year of Cost Estimate 97:	
Rte.(On/Under)5A:	1	Approach Spans 46:	0	Brdr Brdg Code/% 98A/B:	
Signing Prefix 5B:	1	Horiz Clr 47:	42.0 ft	Border Bridge Number 99:	
Level of Service 5C:	1	Max Span 48:	38.0 ft	Defense Highway 100:	1
Directional Suffix 5E:	0	Str Length 49:	103.7 ft	Parallel Structure 101:	R
Feature Intersected 6:		Curb Wdth L/R 50A/B:	0.0 ft 0.0 ft	Direction of Traffic 102:	1
BLACK SQUIRREL CREEK		Width Curb to Curb 51:	42.0 ft	Temporary Structure 103:	
Facility Carried 7:		Width Out to Out 52:	45.2 ft	Highway System 104:	1
25 ML NBND		Deck Area:	4,682.3 sq. ft	Fed Lands Hiway 105:	0
Alias Str No.8A:		Min Clr Ovr Brdg 53:	99.99	Year Reconstructed 106:	1976
		Min Undrclr Ref 54A:	N	Deck Type 107:	1
Prll Str No. 8P		Min Undrclr 54B:	0.0 ft	Wearing Surface 108A:	6
H-17-L		Min Lat Clrnce Ref R 55A:	N	Membrane 108B:	0
Location 9:		Min Lat Undrclr R 55B:	0.0 ft	Deck Protection 108C:	0
3.7 MI N OF JCT SH 83 ML		Min Lat Undrclr L 56:	0	Truck ADT 109:	12 %
Max Clr 10:	99.99	Deck 58:	6	Trk Net 110:	1
BaseHiway Net12:	1	Super 59:	5	Pier Protection 111:	#
IrsinvRout 13A:	000000025A	Sub 60:	6	NBIS Length 112:	Y
IrsSubRout No13B:	00	Channel/Protection 61:	8	Scour Critical 113:	8
Latitude 16:	39d 00' 03"	Culvert 62:	N	Scour Watch 113M:	0
Longitude 17:	104d 49' 05"	Oprrtg Rtg Method 63:	1 LF Load Fact	Future ADT 114:	56,021
Range18A:	66 W	Operating Rating 64:	35.1	Year of Future ADT 115:	2027
Township18B:	66	Inv Rtg Method 65:	1	CDOT Str Type 120A:	CIC
Section18C:	18	Inventory Rating 66:	21.1	CDOT Constr Type 120B:	0.
Detour Length 19:	0.6 mi	Asph/Fill Thick 66T:	005 "in"	Inspection Indic 122A:	
Toll Facility 20:	3	Str. Evaluation 67:	4	Inspection Trip 122AA:	
Custodian 21:	1	Deck Geometry 68:	8	Scheduling Status 122B:	
Owner 22:	1	Undrclr Vert/Hor 69:	N	Maintenance Patrol 123:	8
Functional Class 26:	11	Posting 70:	5	Expansion Dev/Type124:	P
Year Built 27:	1954	Waterway Adequacy 7:	8	Brdg Rail Type/Mod 125A/B:	H 4
Lanes on 28A:	2	Approach Alignment 72:	8	Posting Trucks 129A/B/C:	0 0 0
Lanes Under 28B:	0	Type of Work 75A:		Str Rating Date 130:	5/23/2006
ADT 29:	37,100	Work Done By 75B:		Special Equip 133:	-1
Year of ADT 30:	2007	Length of Improvment 76:	0.0 ft	Vert Clr N/E 134A/B/C:	X 99.99 0.00
Design Load 31:	5	Insp Team Indicator 90B:	RED TEAM	Vert Clr S/W 135A/B/C:	X 99.99 0.00
Apr Rdwy Width 32:	38.0 ft	Inspector Name 90C:	TATALASKIT	Vertical Clr Date:	1/1/1901
Median 33:	1	Frequency 91:	24 months	Weight Limit Color: 139:	0
Skew 34:	15.00 °	FC Frequency 92A:	-1	Str Billing Type:	U
Structure Flared 35:	0	UW Frequency 92B:	-1	Userkey 1 - System:	ONSYS
Sfty Rail 36a/b/c/d:	0 0 1 1	SI Frequency 92C:	-1	Userkey 7-Update Indic:	
Rail ht36h:	30 "in"	FC Inspection Date 93A:			

Inspector Name: TATALASKIT

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Element Inspection Report

Elm/En	Description	Units	Total Qty	% in 1	CS 1	% in 2	CS 2	% in 3	CS 3	% in 4	CS 4	% in 5	CS 5
13/1	Unp Conc Deck/AC Ovl	(SF)	4,687	100 %	4,687	0 %	0	0 %	0	0 %	0	0 %	0
107/1	Paint Stl Opn Girder	(LF)	700	42 %	294	31 %	216	21 %	146	5 %	36	1 %	8
205/1	R/Conc Column	(EA)	6	83 %	5	17 %	1	0 %	0	0 %	0	0 %	0
215/1	R/Conc Abutment	(LF)	94	94 %	88	6 %	6	0 %	0	0 %	0	0 %	0
234/1	R/Conc Cap	(LF)	92	88 %	81	11 %	10	1 %	1	0 %	0	0 %	0
306/1	Asphaltic Plg Exp Jt	(LF)	44	0 %	0	100 %	44	0 %	0	0 %	0	0 %	0
308/1	Constr Non Exp Jt	(LF)	94	57 %	54	36 %	34	6 %	6	0 %	0	0 %	0
311/1	Moveable Bearing	(EA)	21	62 %	13	38 %	8	0 %	0	0 %	0	0 %	0
313/1	Fixed Bearing	(EA)	7	57 %	4	43 %	3	0 %	0	0 %	0	0 %	0
325/1	Slope Prot/Berms	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
326/1	Bridge Wingwalls	(EA)	4	100 %	4	0 %	0	0 %	0	0 %	0	0 %	0
334/1	Metal Rail Coated	(LF)	208	96 %	199	0 %	0	0 %	0	0 %	0	4 %	9
338/1	Conc Curbs/SW	(LF)	208	98 %	203	2 %	5	0 %	0	0 %	0	0 %	0
358/1	Deck Cracking SmFlag	(EA)	1	0 %	0	100 %	1	0 %	0	0 %	0	0 %	0
359/1	Soffit Smart Flag	(EA)	1	0 %	0	100 %	1	0 %	0	0 %	0	0 %	0
371/1	Traff Imp Dck SmFlag	(LF)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
501/1	Channel Cond	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
504/1	BankCond	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
530/1	Approach Guardrail A	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0

Elem/Env	Description	Element Notes
13/1	Unp Conc Deck/AC Ovl	4 to 5 inches of asphalt - Slight rutting. Minor raveling along seams and in ML #2 near P2, & 1/2 inch wide longit. cracks, partially tar sealed.
107/1	Paint Stl Opn Girder	Girder 3A has spots of R2 to R4 corrosion on base of web, 1-2009 PHOTO, measured up to 3/16 inch loss to 1/2 inch thick web with wall thickness gage. Girder A has light R1 to R1 corrosion on bottom flange, full length in all spans, and some R2 corrosion at ends of a few girders. Spots of light R1 to R1 corrosion on others. (See Tally Sheet) R2 corr. to diaphragms above piers. Widened by 2 girders (F & G) on the right in 1976 vs. orig. 1954.
205/1	R/Conc Column	Couple shallow delaminations on Columns 3A & 3B. Debris walls between columns have graffiti, but otherwise look good.

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215/1	R/Conc Abutment	Few light vertical cracks, and moderate water staining. Light scale at Abutment 4 in Bay B, C, and E (with efflor.).
234/1	R/Conc Cap	Heavy water staining on original caps. P3 left some spalling with exposed ends of 5 rebar due to insufficient conc cover & some delam on end, and cracking on bottom with light scale. See 2006 photos. Light scale, delam, and random cracking at left end Pier 2.
306/1	Asphaltic Plg Exp Jt	Joint at Abutment 4; Cracking & D-cracking along 1 ft width on the span 3 side, partially tar sealed. Dishing and rutting in wheel lines.
308/1	Constr Non Exp Jt	At piers. Covered with asphalt in roadway. D-cracking with impending potholes at Pier 2 truck lane, light crack across #1 lane; starting to crack along Pier 3.
311/1	Moveable Bearing	Rockers at P2, P3, and A4 - R1 to R2 corrosion on all exterior, and light R1 corrosion on interior. Bearings 4A, 4B, and 4C are tipped about 5 degrees toward A4 backwall, and has some rust pack between rocker and sole plate. Bearings 4D, and 4E are tipped slightly. Debris around Bearing 4G.
313/1	Fixed Bearing	At Abutment 1 - R1 corrosion on Bearings 1A, 1F, and 1G. Light R1 corrosion on others.
325/1	Slope Prot/Berms	Dirt slopes with some broken concrete riprap, mostly on Rt. side. Shallow erosion troughs in both slopes.
326/1	Bridge Wingwalls	U-Type abutment wings on right. Mostly buried. Some light scale and delam. on curtain wall at #1 Right. Stubs on left. Spalling on front face of #1 Left. Shallow delam. on face of #4 left and horizontal crack at construction joint.
334/1	Metal Rail Coated	Galvanized flex-beam with inadequate plate backing, type H, on right. The prev. damage was repaired. Galvanized flex-beam with double rectang. backing tubes, Type W, on left. Good condition.
338/1	Conc Curbs/SW	Right curb damage repaired since 2006 insp., but has a few spots that were left unpatched. Several trans. cracks and spots of light scale. Few plow scrapes on left. Backside spalling on left. Patch at A1 left failed. Conc. curb at 1st bridge post (at rear appr. roadway) on Rt. side is spalled with exposed rebar (PHOTO 12/10).
358/1	Deck Cracking SmFlag	See Element 13 comments.
359/1	Soffit Smart Flag	Original section (bays A-D) has moderate map cracking, no efflorescence. Few light trans. cracks with efflorescence in widening. Light scale along Girder 2A near P3.
371/1	Traff Imp Dck SmFlag	Bridge rail damage repaired since last inspection - no longer 9 posts and about 65 feet of Rail damage; see 2006 photo. IMP-MM/?/YY, ISP-11/14/06, REP-?/?/07

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501/1	Channel Cond	Black Squirrel Creek. Good alignment. Sandy bed. Meandering Flow. Cattails growing in channel.
504/1	BankCond	Steep banks, but much vegetation. Trees growing under span 1 & 2.
530/1	Approach Guardrail A	Inadequate transition rail at entrances to bridge.

Maintenance Activity Summary

MMS Activity	Description	Recommended	Status	Target Year	Est Cost
356.02	Curb & RI	12/15/2010	-	2012	500

Repair damaged curb at 1st. post on Rt. along rear approach roadway. The curb is spalled with exposed rebar. See 12/10 PHOTO.

353.08	Br Dk Rpr	10/12/2004	-1	2012	200
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Seal cracks in asphalt & along pier joints & abut. joint.

355.02	Cln & Pnt	10/12/2004	-1	2011	2500
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Clean and spot paint girder A if nothing else. This one has up to 3/16 inch section loss (R4 corr.) for as far as 8 feet.

Clean & spot paint other girders & bearings as necessary, if bridge is not to be replaced for 10 years.

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Bridge Notes

Damaged areas of approach rail has been repaired prior to 2010 inspection.

Inspection Notes

Time :-> 1:45 Temperature :-> 58 degrees F. Weather :-> P/C

Scope:

NBI: Element: Underwater: Fracture Critical: Other: Type: Regular NBI

Inspector: TATALASKIT

Inspection Team:

Inspection Date: 12/15/2010

Inspector

Inspector